



62
Spec 2.1

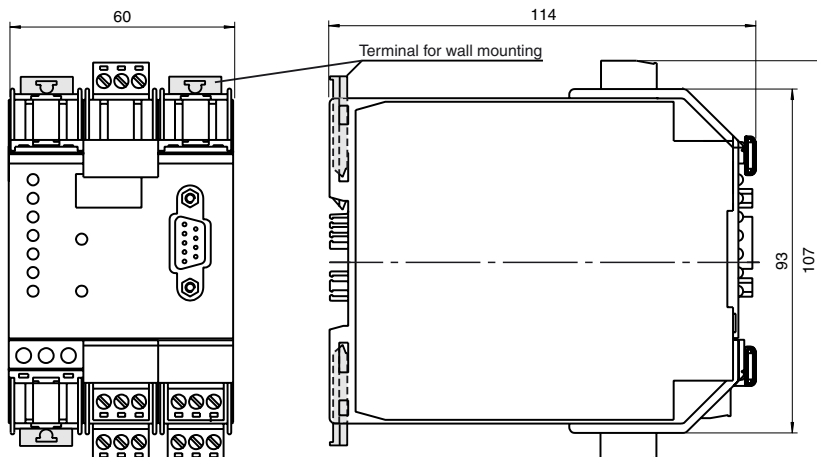
Model number

VBG-PB-KF-R4
PROFIBUS gateway cabinet module

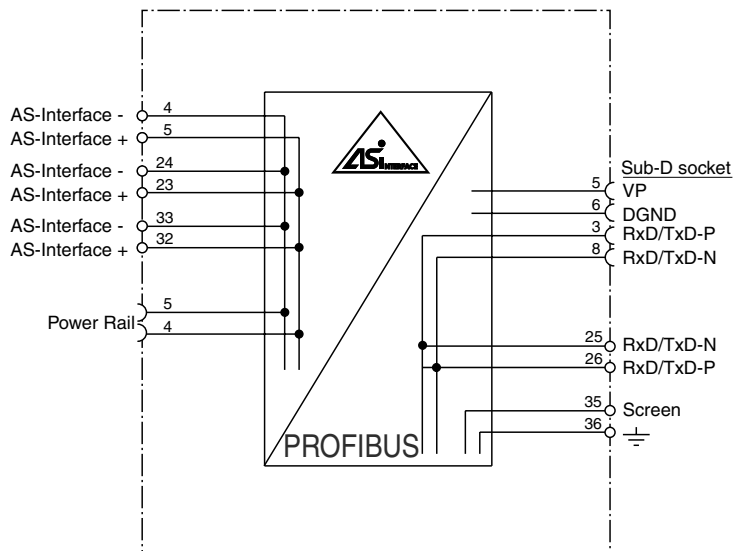
Features

- Gateway according to AS-Interface specification 2.1 for up to 62 units
- Connection to PROFIBUS DP
- Acyclic communication in accordance with PROFIBUS DP V1
- Commissioning, without PROFIBUS communication
- All AS-Interface functions possible via PROFIBUS
- Power supply from AS-Interface
- Coded, removable terminals
- Error diagnostics via LEDs and LC display
- Parameterization and monitor software
- Power Rail connection

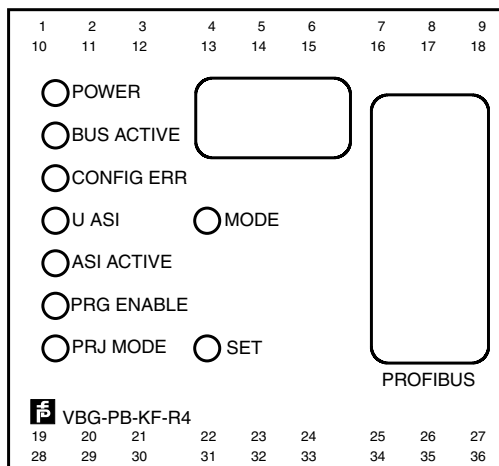
Dimensions



Electrical connection



Indicating / Operating means



Release date: 2010-06-14 15:38 Date of issue: 2010-06-14 11:2484_ENG.xml

Technical data**General specifications**

| | |
|----------------------------|------------|
| AS-Interface specification | V2.11 |
| PLC-Functionality | none |
| Diagnostics function | integrated |

Indicators/operating means

| | |
|-----------------|--|
| Display | 2-digit LC Display for address and error message |
| LED BUS ACTIVE | PROFIBUS master detected; LED green |
| LED AS-i ACTIVE | AS-Interface operation normal; LED green |
| LED CONFIG ERR | configuration error; LED red |
| LED PRG ENABLE | autom. programming; LED green |
| LED POWER | voltage ON; LED green |
| LED PRJ MODE | projecting mode active; LED yellow |
| LED U AS-i | AS-Interface voltage; LED green |
| Switch SET | Selection and setting of a slave address |
| Button MODE | Mode selection/save configuration |

Electrical specifications

| | | |
|---------------------------|-------|---------------------------------|
| Insulation voltage | U_i | ≥ 500 V |
| Rated operational voltage | U_e | from AS-Interface |
| Rated operational current | I_e | ≤ 180 mA from AS-Interface |

Interface

| | |
|----------------|---|
| Interface type | RS 485 |
| Protocol | PROFIBUS |
| Transfer rate | 9.6; 19.2; 44.44; 93.95; 187.5; 500; 1500 kBit/s self-synchronizing |

Connection

| | |
|--------------|--|
| PROFIBUS | RS 485 Interface and removable coded terminals |
| AS-Interface | removable coded terminals, Power Rail |

Ambient conditions

| | |
|---------------------|------------------------------|
| Ambient temperature | 0 ... 55 °C (32 ... 131 °F) |
| Storage temperature | -15 ... 75 °C (5 ... 167 °F) |

Mechanical specifications

| | |
|-------------------|----------------------------------|
| Protection degree | IP40 (housing), IP20 (terminals) |
| Mass | 420 g |
| Construction type | Low profile housing , plastic |

Function

The VBG-PB-KF-R4 is a complete AS-Interface master in accordance with AS-Interface specification 2.11 in IP20. The design of this master is especially suitable for use in the switch cabinet. The KF cabinet housing of the PROFIBUS Gateway offers all the advantages of the serial master, such as Power Rail connections and coded, removable terminals.

The VBG-PB-KF-R4 is a modular PROFIBUS slave. This means that the user can use the PROFIBUS configuration tool to specify what data will be transferred via the PROFIBUS. This makes it possible to adjust the amount of data to be transferred via PROFIBUS.

In addition, this gateway supports acyclical communication of the PROFIBUS DP V1. These acyclical services can be used to access a mailbox in the gateway that provide access to all the data that are made available by the AS-Interface/PROFIBUS Gateway.

Two push buttons are used for address assignment, acceptance of the desired configuration and for adjustment of the PROFIBUS address and baud rate. In configuration mode, all detected AS-Interface slaves are displayed on the 2-digit LCD. In normal operation, the LCD is blank unless the master detects a faulty AS-Interface slave. There are 7 LEDs on the front panel, showing the current status of the AS-Interface line.

Accessories**VAZ-SW-ACT32**

AS-Interface software

VAZ-PB-SIM

PROFIBUS master simulator

UPR-E

End cap

UPR-05

Universal Power Rail

VAZ-PB-DB9-W

PROFIBUS quick-action connector

VAZ-PB-CABLE

Profibus cable